# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No: CTCE/BBMP/WNo.02/ BRD/CC/RENT/2014-15 Date: 11.03.2015

## TEST REPORT

| | | |
|---|---|---|
| CLIENT | : | Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| AGENCY | : | Mr. B.R Dhananjaya, Contractor, Bangalore |
| NAME OF THE WORK | : | Construction of Culverts in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore. |
| REFERENCE | : | EE/YNK DIV-PMT-8/W.O/390/2013-14 Dated: 17.01.2014 |
| SAMPLE ID | : | Cement |
| SAMPLES SUPPLIED BY | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 8112-1989 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS:4031 (Part -5) | 160 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS:4031 (Part -5) | 490 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS:4031 (Part 3) by the Le-Chatelier apparatus | 1 mm | Not more than 10 mm |

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Job No: CTCE/BBMP/WNo/02/BRD/SAND/2014-15 11.08.2014

## TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Mr. B.R Dhananjaya, Contractor, Bangalore.

Name of Work : Construction of Culverts in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : EE(Y)NK.D:E-PMT-8/W.O/390/2013-14 Dated: 17.01.2014

Date of Testing : 11.08.2014

Material : Sand Total Wt. of Aggregates in gms : 1000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec. Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 69 | 6.90 | 6.90 | 93.1 | 90-100 |
| 2.36 | 170 | 17.00 | 23.90 | 76.1 | 75-100 |
| 1.18 | 185 | 18.50 | 42.40 | 57.6 | 55-90 |
| 600 Micron | 210 | 21.00 | 63.40 | 36.6 | 35-59 |
| 300 Micron | 184 | 18.40 | 81.80 | 18.2 | 8-30 |
| 150 Micron | 135 | 13.50 | 95.30 | 4.7 | |

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Note:

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3. Any Query regarding the report must be reported within 15 days from the date of testing.

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T-2377

Job No: CTCE/BBMP/W-No.02/BRD/AGG/2014-15 11.08.2014

## TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

| | |
|---|---|
| Client | Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| Agency | :Mr. B.R Dhananjaya, Contractor, Bangalore. |
| Name of Work | : Construction of Culverts in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore. |
| Reference | : EE/YNK DIS-PST-8/WO/390/2013-14 Dated: 17.01.2014 |
| Date of Testing | 11.08.2014 |
| Material | : 40mm Aggregates |

Total Wt. of Aggregates in gms 10000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 355 | 3.55 | 3.55 | 96.45 | 95-100 |
| 20 | 5682 | 56.82 | 60.44 | 39.56 | 30-70 |
| 10 | 2508 | 25.00 | 85.44 | 14.56 | 10-35 |
| 4.75 | 1350 | 13.50 | 98.94 | 1.06 | 0-5 |

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No: CTCE/BBMP/W.No.02/BRD/CUBE/2014-15 04.10.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore |
| Agency | : M/s. B.R Dhananjaya, Contractor, Bangalore. |
| Name of the work | : Construction of Culverts in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore. |
| Reference | : EE/YNK.D/E-PMU-8/W.O/390/2013-14 Dated: 17.01.2014 |
| Sample ID | : Covering Slab Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 mm$^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : M$_{25}$ |
| Compressive Strength as on | : 28$^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm$^2$) |
|---|---|---|---|---|---|
| 1 | 06.09.2014 | 04.10.2014 | 8.175 | 495.3 | 22.01 |
| 2 | 06.09.2014 | 04.10.2014 | 8.275 | 510.5 | 22.69 |
| 3 | 06.09.2014 | 04.10.2014 | 8.365 | 519.3 | 23.08 |

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T-2377


Job No.: CTCE/BBMP/W.No.02/BRD/CUBE/2014-15 23.09.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore |
| Agency | : Mr. B.R Dhananjaya, Contractor, Bangalore |
| Name of the work | : Construction of Culverts in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore. |
| Reference | : EE/YNK.D/E-PMT-8/W.O/390/2013-14 Dated: 17.01.2014 |
| Sample ID | : Drain Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{25}$ |
| Compressive Strength as on | : $28^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm²) |
|---|---|---|---|---|---|
| 1 | 26.08.2014 | 23.09.2014 | 8.250 | 475.2 | 21.12 |
| 2 | 26.08.2014 | 23.09.2014 | 8.346 | 500.5 | 22.24 |
| 3 | 26.08.2014 | 23.09.2014 | 8.100 | 510.3 | 22.6 |

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Job No: CTCE/BBMP/W.No.02/BRD/CUBE/2014-15 23.09.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| Agency | : Mr. B.R Dhananjaya, Contractor, Bangalore. |
| Name of the work | : Construction of Culverts in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore. |
| Reference | : EE(YNK)DJE-PMT-8/W.O/390/2013-14 Dated: 17.01.2014 |
| Sample ID | : Drain Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{25}$ |
| Compressive Strength as on | : 28$^{th}$ day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm²) |
|---|---|---|---|---|---|
| 1 | 26.08.2014 | 23.09.2014 | 8.275 | 480.5 | 21.36 |
| 2 | 26.08.2014 | 23.09.2014 | 8.390 | 490.3 | 21.79 |
| 3 | 26.08.2014 | 23.09.2014 | 8.450 | 531.6 | 23.63 |

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005


Job No: CTCE/BBMP/W.No.02/BRD/CTME/2014-15 23.09.2014

## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Client | Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| Agency | : Mr. B.R Dhananjaya, Contractor, Bangalore. |
| Name of the work | : Construction of Culverts in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore. |
| Reference | : EE/YNK Dn/E-PMC-8/W.O/390/2013-14 Dated: 17.01.2014 |
| Sample ID | : Drain Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{25}$ |
| Compressive Strength as on | : $28^{th}$ day |

| Sl.No | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm²) |
|---|---|---|---|---|---|
| 1 | 26.08.2014 | 23.09.2014 | 8.199 | 512.6 | 22.78 |
| 2 | 26.08.2014 | 23.09.2014 | 8.288 | 495.2 | 22.01 |
| 3 | 26.08.2014 | 23.09.2014 | 8.377 | 488.9 | 21.73 |

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Job No: CTCE/BBMP/W.No.02/BRD/CCBE/2014-15 23.09.2014

## TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Agency : Mr. B.R Dhananjaya, Contractor, Bangalore.

Name of the work : Construction of Culverts in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : EE/YNK/DE-PMT-8/W.O/390/2013-14 Dated: 17.01.2014

Sample ID : Dram Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 $mm^2$

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : $M_{25}$

Compressive Strength as on : $28^{th}$ day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 26.08.2014 | 23.09.2014 | 8.260 | 512.6 | 22.78 |
| 2 | 26.08.2014 | 23.09.2014 | 8.340 | 488.9 | 21.73 |
| 3 | 26.08.2014 | 23.09.2014 | 8.469 | 510.5 | 22.69 |

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